IN THE CLAIMS:

Please Amend the claims to read as follows:

Please cancel claims 7-14, 16-19, and 33 without prejudice.

- 1. (Previously Presented) A method for converting a file access data structure from a
- 2 first endianness to a second endianness by a processor, the method comprising the steps
- 3 of:
- identifying, from a descriptor look up table, a series of actions to perform on ele-
- 5 ments of the file access data structure, where the series of actions include at least one of
- 6 converting, copying, or linking; and
- performing the identified series of actions on the elements of the file access data
- structure to convert the file data structure from the first endianness to the second endian-
- 9 ness.
- 2. (Previously Presented) A method of converting elements of a file access data structure
- from a first endianness to a second endianness by a processor, the method comprising the
- 3 steps of:
- determining if the file access data structure is a critical path data structure;

converting, in response to the file access data structure being a critical path data

structure, the elements from the first endianness to the second endianness using a set of

7 specific code functions;

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8 converting, in response to the file access data structure not being a critical path

data structure, a header of the file access data structure from the first endianness to the

second endianness using a second set of specific code functions; and

calling a byte swapping engine to convert selected elements of the file access data

structure from the first byte order to the second byte order.

3. (Original) The method of claim 2 wherein the file access data structure further com-

2 prises a direct access file access data structure.

4. (Previously Presented) A file system for converting elements of a file access data

structure from a first endianness to a second endianness, the system comprising:

an input buffer, the input buffer storing the file access data structure with the first

endianness to be converted;

a byte swapping engine, the byte swapping engine operative interconnected with a

descriptor table, with the descriptor table listing a series of actions to perform when con-

verting the file data structure from the first endianness to the second endianness, where

the series of actions include at least one of converting, copying, or linking; and

an output buffer, the byte swapping engine placing the file access data structure

with the second endianness in the output buffer after conversion.

- 5. (Original) The system of claim 4 wherein the descriptor table further comprises a set
- of entries describing various file access data structures, each entry further comprising a
- size field and an operation field.
- 6. (Original) The system of claim 4 wherein the file access data structure further com-
- 2 prises a direct access file access data structure.

7-14 (Cancelled)

- 15. (Previously Presented) A computer-readable medium, including program instructions
- executing on a computer, for converting elements of a file access data structure from a
- first endianness to a second endianness, the method comprising the steps of:
- determining if the file access data structure is a critical path data structure;
- converting, in response to the file access data structure being a critical path data
- structure, the elements from the first endianness to the second endianness using a set of
- 7 specific code functions;
- 8 converting, in response to the file access data structure not being a critical path
- data structure, a header of the file access data structure from the first endianness to the
- second endianness using a second set of specific code functions; and
- calling a byte swapping engine to convert selected elements of the file access data
- structure from the first byte order to the second byte order.

16-19 (Cancelled)

- 20. (Previously Presented) A method for converting a data structure by a processor,
- 2 comprising:
- calling a byte-swapping engine;
- 4 providing a file access data structure as input to the byte-swapping engine;
- 5 providing a descriptor look up table to the byte-swapping engine;
- identifying, from the descriptor look up table, a series of actions to perform on
- elements of the file access data structure in order to swap bytes of the file access data
- structure from a first endianness to a second endianness, where the series of actions in-
- 9 clude at least one of converting, copying, or linking; and
- performing the identified series of actions on the elements of the file access data
- structure to convert the file access data structure.
- 21. (Previously Presented) The method as in claim 20, further comprising:
- using as the file access data structure a file having Direct Access File System
- 3 (DAFS) protocol.
- 1 22. (Previously Presented) The method as in claim 20, further comprising:
- determining if the file access data structure is a critical path data structure, where
- the critical path data structure includes commonly utilized data structures, and if the file

- 4 access data structure is a critical path data structure, perform byte swap operations using
- 5 specific code functions.
- 23. (Previously Presented) The method as in claim 20, further comprising:
- determining if the file access data structure is a critical path data structure, where
- the critical path data structure includes commonly utilized data structures, and if the file
- 4 access data structure is not a critical path data structure, perform byte swap operations on
- 5 a data structure header.
- 24. (Previously Presented) The method as in claim 20, further comprising:
- swapping bytes of the data structure as needed, in response to swapping bytes of
- 3 the file access data structure.
- 25. (Previously Presented) The method as in claim 20, further comprising:
- determining if an element entry of the descriptor look up table is nested;
- branching to the nested entry;
- identifying, from the descriptor look up table, a nested series of actions to perform
- on elements of the nested entry in order to swap bytes of the entry from a first endianness
- to a second endianness, where the nested series of actions includes linking and convert-
- 7 ing.

- 26. (Previously Presented) A computer to convert a data structure by a processor, com-
- 2 prising:
- means for calling a byte-swapping engine;
- 4 means for providing a file access data structure as input to the byte-swapping en-
- 5 gine;
- means for providing a descriptor look up table to the byte-swapping engine;
- means for identifying, from the descriptor look up table, a series of actions to per-
- form on elements of the file access data structure in order to swap bytes of the file access
- data structure from a first endianness to a second endianness, where the series of actions
- include at least one of converting, copying, or linking; and
- means for performing the identified series of actions on the elements of the file
- access data structure to convert the file access data structure.
- 27. (Previously Presented) The computer as in claim 26, further comprising:
- means for using as the file access data structure a file having Direct Access File
- 3 System (DAFS) protocol.
- 28. (Previously Presented) The computer as in claim 26, further comprising:
- means for determining if the file access data structure is a critical path data struc-
- ture, where the critical path data structure includes commonly utilized data structures, and
- 4 if the file access data structure is a critical path data structure, perform byte swap opera-
- 5 tions using specific code functions.

- 29. (Previously Presented) The computer as in claim 26, further comprising:
- means for determining if the file access data structure is a critical path data struc-
- ture, where the critical path data structure includes commonly utilized data structures, and
- 4 if the file access data structure is not a critical path data structure, perform byte swap op-
- 5 erations on a data structure header.
- 30. (Previously Presented) The computer as in claim 26, further comprising:
- means for swapping bytes of the data structure as needed, in response to swapping
- bytes of the file access data structure.
- 31. (Previously Presented) The computer as in claim 26, further comprising:
- means for determining if an element entry of the descriptor look up table is
- 3 nested;
- 4 means for branching to the nested entry;
- means for identifying, from the descriptor look up table, a nested series of actions
- to perform on elements of the nested entry in order to swap bytes of the entry from a first
- 7 endianness to a second endianness, where the nested series of actions includes converting
- 8 and linking.
 - 32. (Previously Presented) A computer readable media, comprising:

- said computer readable media containing instructions for execution on a processor
- for the practice of a method for converting a data structure by a processor, the method
- 4 having the steps of,
- calling a byte-swapping engine;
- 6 providing a file access data structure as input to the byte-swapping engine;
- providing a descriptor look up table to the byte-swapping engine;
- identifying, from the descriptor look up table, a series of actions to perform on
- elements of the file access data structure in order to swap bytes of the file access data
- structure from a first endianness to a second endianness, where the series of actions in-
- clude at least one of converting, copying, or linking; and
- performing the identified series of actions on the elements of the file access data
- structure to convert the file access data structure.
 - 33. (Cancelled)
- 34. (Previously Presented) A method of converting elements of a file access data struc-
- ture from a first endianness to a second endianness by a processor, comprising:
- determining if the file access data structure is a critical path data structure; and
- 4 converting the elements from the first endianness to the second endianness using a
- set of specific code functions if the file access data structure is a critical path data struc-
- 6 ture.

- 35. (Previously Presented) The method of claim 34, further comprising:
- converting a header of the file access data structure from the first endianness to
- the second endianness using a second set of specific code functions if the file access data
- 4 structure is not a critical path data structure.
- 36. (Previously Presented) The method of claim 34, further comprising:
- calling a byte swapping engine to convert selected elements of the file access data
- structure from the first byte order to the second byte order.
- 37. (Previously Presented) A method for converting a first data structure from a to a sec-
- ond data structure by a processor, the method comprising the steps of:
- using a descriptor lookup table to provide actions to be performed on each ele-
- 4 ment of the first data structure; and
- stepping through the descriptor table and processing each element of the first data
- structure according to the element's size and action to convert the first data structure into
- 7 the second data structure.
- 38. (Previously Presented) The method of claim 37, further comprising:
- 2 using a byte as the data structure.

- 39. (Previously Presented) The method of claim 2, wherein the critical data path structure
- 2 includes commonly used data structures.
- 40. (Previously Presented) The method of claim 2, wherein the critical data path structure
- is a direct access file system (DAFS) header data structure.
- 41. (Previously Presented) The method of claim 2, wherein the specific code functions
- are designed to rapidly convert any elements of the data structure to the second endian-
- ness without using a byte swapping engine.
- 42. (Previously Presented) The computer-readable medium of claim 15, wherein the criti-
- 2 cal data path structure includes commonly used data structures.
- 43. (Previously Presented) The computer-readable medium of claim 15, wherein the criti-
- cal data path structure is a direct access file system (DAFS) header data structure.
- 44. (Previously Presented) The computer-readable medium of claim 15, wherein the spe-
- 2 cific code functions are designed to rapidly convert any elements of the data structure to
- the second endianness without using a byte swapping engine.

- 45. (Previously Presented) The method of claim 34, wherein the critical data path struc-
- ture includes commonly used data structures.
- 46. (Previously Presented) The method of claim 34, wherein the critical data path struc-
- ture is a direct access file system (DAFS) header data structure.
- 47. (Previously Presented) The method of claim 34, wherein the specific code functions
- are designed to rapidly convert any elements of the data structure to the second endian-
- ness without using a byte swapping engine.